ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/18/2023 12:29:02 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184626-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

Generated 5/18/2023 12:29:02 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-184626-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS US Inc

Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Job ID: 240-184626-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184626-1

Receipt

The samples were received on 5/4/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.6°C

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-184626-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184626-1	TRIP BLANK_149	Water	05/01/23 00:00	05/04/23 08:00
240-184626-2	MW-110S_050123	Water	05/01/23 13:10	05/04/23 08:00

Detection Summary

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_149 Lab Sample ID: 240-184626-1

No Detections.

Client Sample ID: MW-110S_050123 Lab Sample ID: 240-184626-2

No Detections.

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Date Received: 05/04/23 08:00

Client Sample ID: TRIP BLANK_149

Lab Sample ID: 240-184626-1 Date Collected: 05/01/23 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 23:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 23:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 23:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 128			-		05/11/23 23:11	1
Dibromofluoromethane (Surr)	98		77 - 124					05/11/23 23:11	1
Toluene-d8 (Surr)	101		80 - 120					05/11/23 23:11	1
4-Bromofluorobenzene	115		76 - 120					05/11/23 23:11	1

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5/18/2023

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Date Received: 05/04/23 08:00

Client Sample ID: MW-110S_050123

Date Collected: 05/01/23 13:10

Lab Sample ID: 240-184626-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/23 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		75 - 133					05/07/23 05:56	1
Method: SW846 8260D - Vol Analyte	•	ounds by G		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL			<u>D</u> .	Prepared	Analyzed	Dil Fac
	•	Qualifier		MDL 0.49		<u>D</u> .	Prepared	Analyzed 05/12/23 02:57	Dil Fac
Analyte	Result	Qualifier U	RL		ug/L	<u>D</u> .	Prepared	·	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49	ug/L ug/L	<u> </u>	Prepared	05/12/23 02:57	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u>D</u> .	Prepared	05/12/23 02:57 05/12/23 02:57	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44	ug/L ug/L ug/L ug/L	<u>D</u>	Prepared	05/12/23 02:57 05/12/23 02:57 05/12/23 02:57	Dil Fac 1 1 1 1 1 1 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	70 - 128		05/12/23 02:57	1
Dibromofluoromethane (Surr)	97	77 - 124		05/12/23 02:57	1
Toluene-d8 (Surr)	100	80 - 120		05/12/23 02:57	1
4-Bromofluorobenzene	117	76 - 120		05/12/23 02:57	1

5/18/2023

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-184626-1	TRIP BLANK_149	110	98	101	115
240-184626-2	MW-110S_050123	110	97	100	117
LCS 460-908577/2	Lab Control Sample	101	91	100	118
LCSD 460-908577/4	Lab Control Sample Dup	100	91	99	119
MB 460-908577/8	Method Blank	110	99	101	117
Surrogate Legend					

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-184626-2	MW-110S_050123	105	
LCS 460-907549/4	Lab Control Sample	107	
LCSD 460-907549/5	Lab Control Sample Dup	108	
MB 460-907549/8	Method Blank	105	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Client: ARCADIS US Inc Job ID: 240-184626-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-908577/8

Project/Site: Ford LTP - Off Site

Matrix: Water

Analysis Batch: 908577

Client	Sample	ID: I	Metho	d Blan	k
	Pr	an T	wne.	Total/N	Δ

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 20:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 20:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 20:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 20:32	1

MB MB Qualifier %Recovery Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 70 - 128 05/11/23 20:32 110 99 05/11/23 20:32 Dibromofluoromethane (Surr) 77 - 124 101 Toluene-d8 (Surr) 80 - 120 05/11/23 20:32 4-Bromofluorobenzene 117 76 - 120 05/11/23 20:32

Lab Sample ID: LCS 460-908577/2

Matrix: Water

Analysis Batch: 908577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 99 68 - 133 1,1-Dichloroethene 20.0 19.8 ug/L 20.0 cis-1,2-Dichloroethene 19.7 ug/L 99 78 - 121 20.0 20.9 Tetrachloroethene ug/L 105 70 - 127 74 - 126 trans-1,2-Dichloroethene 20.0 20.1 ug/L 101 Trichloroethene 20.0 19.7 ug/L 99 71 - 121 Vinyl chloride 20.0 19.0 ug/L 95 55 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 70 - 128 Dibromofluoromethane (Surr) 91 77 - 124 Toluene-d8 (Surr) 80 - 120 100 4-Bromofluorobenzene 76 - 120 118

Lab Sample ID: LCSD 460-908577/4

Matrix: Water

Analysis Batch: 908577

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	20.0		ug/L		100	68 - 133	1	30
cis-1,2-Dichloroethene	20.0	20.5		ug/L		102	78 - 121	4	30
Tetrachloroethene	20.0	21.4		ug/L		107	70 - 127	2	30
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	74 - 126	0	30
Trichloroethene	20.0	20.1		ug/L		100	71 - 121	2	30
Vinyl chloride	20.0	20.0		ug/L		100	55 - 144	5	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 128
Dibromofluoromethane (Surr)	91		77 - 124
Toluene-d8 (Surr)	99		80 - 120

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Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc Job ID: 240-184626-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-908577/4

Lab Sample ID: MB 460-907549/8

Matrix: Water

Matrix: Water

Analysis Batch: 908577

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 119 76 - 120

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 907549

MB MB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/07/23 00:11

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene 105 75 - 133 05/07/23 00:11

Lab Sample ID: LCS 460-907549/4 Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

Analysis Batch: 907549

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 4.09 82 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 107 75 - 133

Lab Sample ID: LCSD 460-907549/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 907549

Spike LCSD LCSD %Rec RPD Analyte Added Qualifier Unit %Rec Limits RPD Limit Result 1,4-Dioxane 5.00 4.20 57 - 124 30 ug/L

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 108 75 - 133

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QC Association Summary

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 907549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184626-2	MW-110S_050123	Total/NA	Water	8260D SIM	
MB 460-907549/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-907549/4	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-907549/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 908577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184626-1	TRIP BLANK_149	Total/NA	Water	8260D	
240-184626-2	MW-110S_050123	Total/NA	Water	8260D	
MB 460-908577/8	Method Blank	Total/NA	Water	8260D	
LCS 460-908577/2	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-908577/4	Lab Control Sample Dup	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-184626-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_149

Lab Sample ID: 240-184626-1 Date Collected: 05/01/23 00:00

Matrix: Water

Date Received: 05/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908577	SZD	EET EDI	05/11/23 23:11

Client Sample ID: MW-110S_050123 Lab Sample ID: 240-184626-2

Date Collected: 05/01/23 13:10 Matrix: Water

Date Received: 05/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	908577	SZD	EET EDI	05/12/23 02:57
Total/NA	Analysis	8260D SIM		1	907549	KLB	EET EDI	05/07/23 05:56

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-184626-1

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

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		Chain of Custody Record	TestAmerica	nericc
	l'est America Laboratory location: Brighton — 10448 Citatu	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	THE LEADER IN ENVIRONMENTAL TESTING	DNMENTAL TESTING
Client Contact	Regulatory program: DW	NPDES RCRA Other		
Company Name: Areadis	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver		l'estAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	C		K Delivering	
City/State/Zip: Novi, MI. 48377	Telephone: 248-994-2240	Telephone: 248-994-2240 Telephone: 330-497-9396	97-9396	COS
Phone: 248-494-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses For lab use only	COCS
Project Name: Ford LTP Off-Site	Sampler Name:	ni Bem h	Walk-in client	
Project Number: 30167538,402.04	Method of Shipmen/Carrier:	-C (A)		State and
PO # 30167538.402.04	Shipping/Tracking No:	Grab		
	Matrix	DCE:	əpu	
Sample Identification	Sample Date Sample Tine Air Schild	HZOOH HAO3 HAO3 HAO3 HAO3 HAO3	Special In	Sample Specific Notes / Special Instructions:
" TRIP BLANK_ 149	5/1/2 1	× × × 0 Z	X X 1 Trip Blank	nk
" mw-1105-05123	5/1/23 13:10 6	X	× ×	3 VOAs for 8260B 3 VOAs for 8260B SIM
Page				
e 17 d				
of 21				
		240-184626 Chain of Custody	MICHIGAL	
			190	
P. 111 11 11 11 11 11 11 11 11 11 11 11 1				
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	Irritant Poisan B L'nknown	Sample Disposal (A fee may be assessed if samples are retnined longer than I month Return to Client Disposal By Lab No	ger than I month) For Months	
Special Instructions QC Requirements & Comments: Sample Address: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	Is: Straight Band #E203631			
Relinquished by / Cost / Cosper	Company Date Tings	1810 Mori Cold Street	Company:	(3/6)
Relinquished by Manney	Company DRCASTS 5/3/23	Receiv	Company:	2
Relinquished by:	12 23	1 40 Kecended in Laboration W.		1 1
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	Sale a la
Eurofins - Canton Sample Receipt Form/Narrative Login # Barberton Facility	: 184626
Client Arcadis Site Name	Cooler unpacked by:
Cooler Received on 5 4 23 Opened on 5 4 23	RAChelle HAidet
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Location	1
Eurofins Cooler # EC Foam Box Client Cooler Box Other	
Packing material used Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cooler	Form
	Corrected Cooler Temp°C
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (YN), # of containers (YN), and 10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory. 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any VOA vials? 16. Larger than this.	Ces No
	es No
Contacted PM Date by via Verbal	Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
19. SAMPLE CONDITION Sample(s) were received after the recommended ho Sample(s) were received Sample(s) were received with bubble >6 mm	red in a broken container.
20. SAMPLE PRESERVATION	, , , , , , , , , , , , , , , , , , , ,
Sample(s) were : Time preserved: Preservative(s) added/Lot number(s):	further preserved in the laboratory.
Time preserved:Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 184624

	Eurofins - Cantor	Sample Receipt Ma	ultiple Cooler Form	
Cooler Description	IR Gun#	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client Box Other	IR GUN #:	1-2	1.2	Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:	1.6	1-6	Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue Ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue Ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wef Ice Sive Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet ice Sive ice Dry ice Water Hone
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
			☐ See Temp	perature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

Eurofins Cleveland
180 S. Van Buran Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

Environment Testing

💸 eurofins

Client Information (Sub Contract Lab)	oampier:		DelMon	Lab PM: DelMonico, Michael	ael		Camer Tracking No(s)	(s):	240-167561.1	
Client Contact: Shipping/Receiving	Phone:		E-Mail: Michae	.DelMon	E-Mail: Michael.DelMonico@et.eurofinsus.com		State of Origin: Michigan		Page: Page 1 of 1	
Company: Eurofins Environment Testing Northeast,			Age	creditations	Accreditations Required (See note):				Job #: 240-184626-1	
Address: 777 New Durham Road, ,	Due Date Requested: 5/17/2023				Å	Analysis Req	Requested		Preservation Codes	les: M - Hexane
City. Edison	TAT Requested (days):								B - NaOH C - Zn Acetate D - Nitric Acid	N - None O - AsNaO2 P - Na2O4S
State, 4.p. 10, 10817 Phone:	* G								E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3 S - H2SO4
732-549-3900(Tel) 732-549-3679(Fax)	i D		(0)						G - Amchlor H - Ascorbic Acid	T - TSP Dodecahydrate
Email:	:# OM		4 10 8	(oN					I - Ice J - DI Water	V - MCAA W - oH 4-5
Project Name: Ford LTP - Off Site	Project #: 24015353		9A) 94	10 59				enistn	K - EDTA L - EDA	Y - Trizma Z - other (specify)
Site:	SSOW#:		dms	SD (Y)C			of co	Other:	
Sample Identification - Client ID (Lab ID)	Sample Date Time	Sample Type (C=comp,	Wavater, Sacolid, Onwaster, Street, Filtgered	900015030C (M	DE09/WIS ⁻ 0090			redmukl isto		Capacita Institutions (Motor
		1		X				X		
TRIP BLANK_149 (240-184626-1)	5/1/23 Eastern		Water	×				-		
MW-110S_050123 (240-184626-2)	5/1/23 13:10 Fastern		Water	×	×			9		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to	vironment Testing North Central, LLC plisted above for analysis/fests/matrix be	aces the ownership of sing analyzed, the samp	method, analyt	e & accredi	ation compliance ut	upon our subcon	tract laboratories. '	This sample shipmer	Int is forwarded under ar instructions will be p	s the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to
acceptation status should be brought to curdins Environment Testing in Possible Hazard Identification	Norm Central, LLC attention immediately	/. If all requested accre	editations are c	Sample	te, return the signe Disposal (A1	ee may be a	ody attesting to said	compliance to Euro ples are retain	rrent to date, return the signed Chain of Custody attesting to sad compliance to Eurotins Environment Testing North Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	sting North Central, LLC.
Unconfirmed					Return To Client		Disposal By Lab	Arch	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	k: 2		Special	Special Instructions/QC Requirements	: Requiremen	ıts:			
	Date:		Ţ	Time:			Method of Shipment:	Fe	der	
Relimplificacity:	J. (LE)NLSJ-	Rece	Received by:	She	Q ·	Date/Time:	10:10	Company
Refinquidhed by:	Date/Time:	Con	Company	Rece			а	Date/Time:		Company
Relinquished by:	Date/Time:	Con	Company	Rece	Received by:		۵	Date/Time:		Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No				Cool	Cooler Temperature(s) °C and Other Remarks	C and Other Re	marks:			
					17 17	7.70	7			

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-184626-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/05/23 12:42 PM

Creator: Armbruster, Chris

Cleator. Armbruster, Clins	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td>	N/A
The cooler's custody seal, if present, is intact.	N/A
Sample custody seals, if present, are intact.	N/A
The cooler or samples do not appear to have been compromised or tampered with.	True
Samples were received on ice.	True
Cooler Temperature is acceptable.	True
Cooler Temperature is recorded.	True
COC is present.	True
COC is filled out in ink and legible.	True
COC is filled out with all pertinent information.	True
Is the Field Sampler's name present on COC?	True
There are no discrepancies between the containers received and the COC.	True
Samples are received within Holding Time (excluding tests with immediate HTs)	True
Sample containers have legible labels.	True
Containers are not broken or leaking.	True
Sample collection date/times are provided.	True
Appropriate sample containers are used.	True
Sample bottles are completely filled.	True
Sample Preservation Verified.	True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Residual Chlorine Checked.	N/A

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DATA VERIFICATION REPORT



May 18, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 184626-1 Sample date: 2023-05-01

Report received by CADENA: 2023-05-18

Initial Data Verification completed by CADENA: 2023-05-18

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, LCS/LCD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 184626-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401846 5/1/202	5261)					
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>)D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DDSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-184626-1

CADENA Verification Report: 2023-05-18

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49775R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184626-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

		Matrix Sample Collection			Ana	lysis		
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM		
TRIP BLANK_149	240-184626-1	Water	05/01/23		Х			
MW-110S_050123	240-184626-2	Water	05/01/23		Х	Х		

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	Not	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					-
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: June 12, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact	Regulate	ory program:		-	DW	F N	PDES		Г	RCRA	f	Oth	er											
Company Name: Arcadis	Client Project M	languer: Kris	Hinske	· ·		Site C	antuct	Chr	ictina	Weaver			_	l ab (Comto	A II	lea Dal	Monie						TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500		_				, me c	Omacc		1311112	vveaver				Lab	Onta	et: wii	ke De	is to Die	:0					COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248-	994-2240				Telept	hone: 2	248-99	94-22	40				Telep	ohone	: 330-	97-93	96						
	Email: kristoffe	r.hinskey@ar	cadis.c	om		A	ualysis	Turn	arou	nd Time		a au			_		,4	naly	ses					1 of 1 COCs For lab use only
Phone: 248-994-2240						2000	- 11-12		- 60									Ť		T				Constant South Constant
Project Name: Ford LTP Off-Site	Sampler Name:	Kent	11	/	00-		dittereni		3 we 2 we															Walk-in client
Project Number: 30167538,402.04	Method of Shipt	nent/Carrier:		7		7 ~	uay		1 we 2 day	ek	2	y			8				SIM					Lab sampling
PO # 30167538.402.04	Shipping/Tracki	ing No:							1 day	y	(N / V) alum	C/Grab	98	8260B	E 8260B			8260E	3260B					Job/SDG No:
			COLUM	Mat	rix		ontain	ers &	Prese	rvatives	- J.		E 8260B	2-DCE	Trans-1,2-DCE	260B	8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B					
Sample Identification	Sample Date	Sample Time	Air	Aquenus	Solid Other:	H2SO4	DH DH	NaOH	ZnAc	Unpres Other:	Filters	Composite	1.1-DCE	cis-1.2	Trans-	PCE 8260B	TCE 8	Vinyl C	1.4-Dic					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 149	5/1/13			1			1				N	I G	Х	Х	Х	Х	Х	Х						1 Trip Blank
MW-1103-05123	5/1/23	/3:/6		6			6				1)G	Y	×	k	×	x	入	x					3 VOAs for 8260B 3 VOAs for 8260B SIM
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		-	\vdash	44	_	-	4				\perp					_					\perp			
										- 1														
Possible Hazard Identification Non-Hazard Flammable Skin Irrit	ant Poisor		Unkno			San	iple Di	sposa	l (A	fee may b				les arc				han i						
Special Instructions QC Requirements & Comments:	e Foisur	I B	Спкле	own	-	1	Retu	irn to	Clien	1	Dispe	osal By	Lab		A	rchive	For		M	lonths				
Sample Address: 34850 57m	dish																							
Submit all results through Cadena at jtomalia@cadenac	o.com. Cadena #f	E203631																						
Level IV Reporting requested. Retinquished by:	Company:		In	N (T'				In.																\
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Relinquished by	Company:	14	\rightarrow	Date/Time	23	_	40	Rece	eiyed	in Labors			X	1 17	1	<u></u>	Cons	Dany:		7	1/			5/3/23 / /237 Date/Time:
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Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)					elMonico, Michael					Carrier Tracking No(s):							COC No: 240-167561.1				
Client Contact: Shipping/Receiving	Phone:			E-M		Doll	Monio	-0@01	t.eurof	incue	com		state d	of Origi	n:				Page:		
Company:				IVIIC				_	d (See		.com		VIICIII	yan		_	-		Page 1 of 1 Job #:		
Eurofins Environment Testing Northeast,																			240-184626-1		
Address: 777 New Durham Road, ,	Due Date Request 5/17/2023	ed:							A	naly	sis	Requ	ıest	ed					Preservation Cod	es: M - Hexane	
City:	TAT Requested (d	ays):					Т			Τ		Τİ			T	T	T		A - HCL B - NaOH	N - None O - AsNaO2	
Edison State, Zip:	_																		C - Zn Acetate D - Nitric Acid	P - Na2O4S	
NJ, 08817									ĺ										E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:						٦						ı						G - Amchlor	S - H2SO4 T - TSP Dodeca	hydrate
Email:	WO #:				-[원]		1 5												H - Ascorbic Acid I - Ice	U - Acetone V - MCAA	,
D					98	or No)	Sho											913	J - DI Water K - EDTA	W - pH 4-5	
Project Name: Ford LTP - Off Site	Project #: 24015353				3	0 2	် ဂို		1									Itali	L - EDA	Y - Trizma Z - other (specific	v)
Site:	SSOW#:		·		를	20	(MOD) VOCs (Short List)											CO	Other:	("
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			Sample	(W=water,	2	2	8260D/5030C	8260D_SIM/5030C										qu.			
		Sample	Type (C=comp,	S=solid, O=waste/oil,	E	Perform	00/50	<u>ရှိ</u>										N I	1		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air)	훈	Per	826(826(Total	Special In:	structions/No	te:
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Mw-110S_050123 (240-184626-2)	5/1/23	13:10 Eastern		Water	П		x	x										6			
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Note: Since laboratory accreditations are subject to change, Eurofins Environm	nent Testing North Cent	ral, LLC place	s the ownership	of method, a	analyte	& acc	credita	tion co	mpliand	e upor	n our s	ubcontr	act la	borato	ies.	This sar	nple sh	nipme	nt is forwarded under	chain-of-custody.	If the
laboratory does not currently maintain accreditation in the State of Origin listed accreditation status should be brought to Eurofins Environment Testing North	above for analysis/test Central, LLC attention in	s/matrix being mmediately. If	analyzed, the sall requested as	amples must ccreditations	be shi are cu	ipped l irrent t	back to to date	o the E	urofins	Enviro	nment hain o	Testing f Custo	g Nort	h Cent estina t	ral, LL o saic	.C labor	atory o	or othe	er instructions will be portions. Environment Tes	provided. Any cha	anges to
Possible Hazard Identification																			ned longer than 1		
Unconfirmed					1				o Clie		[al By					hive For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2			Spec			tions/0		equir									Working	
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-184626-1

Client Sample ID: TRIP BLANK_149

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-184626-1

Date Collected: 05/01/23 00:00 **Matrix: Water** Date Received: 05/04/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/11/23 23:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 23:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/23 23:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/23 23:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/11/23 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 128					05/11/23 23:11	1
Dibromofluoromethane (Surr)	98		77 - 124					05/11/23 23:11	1
Toluene-d8 (Surr)	101		80 - 120					05/11/23 23:11	1
4-Bromofluorobenzene	115		76 - 120					05/11/23 23:11	1

Client Sample ID: MW-110S_050123 Lab Sample ID: 240-184626-2

Date Collected: 05/01/23 13:10 Date Received: 05/04/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/23 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		75 - 133			•		05/07/23 05:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/12/23 02:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/23 02:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 02:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/23 02:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/23 02:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/23 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	110		70 - 128		05/12/23 02:57	1	
Dibromofluoromethane (Surr)	97		77 - 124		05/12/23 02:57	1	
Toluene-d8 (Surr)	100		80 - 120		05/12/23 02:57	1	
4-Bromofluorobenzene	117		76 - 120		05/12/23 02:57	1	

Matrix: Water